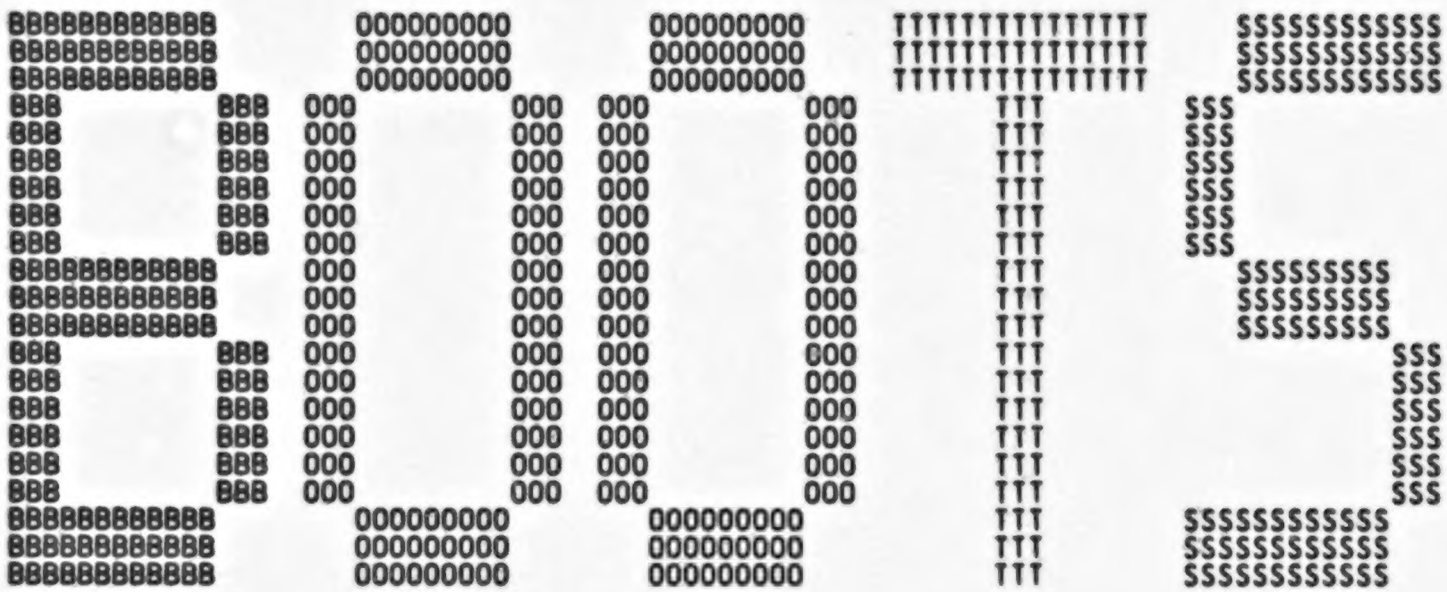
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FILEID**READPRMPT

```
RRRRRRRR    EEEEEEEEEE    AAAAAA    DDDDDDDD    PPPPPPPP    RRRRRRRR    MM      MM  PPPPPPPP    TTTTTTTTTT
RRRRRRRR    EEEEEEEEEE    AAAAAA    DDDDDDDD    PPPPPPPP    RRRRRRRR    MM      MM  PPPPPPPP    TTTTTTTTTT
RR      RR  EE           AA    AA  DD      DD  PP      PP  RR      RR  MMMM  MMMM  PP      PP      TT
RR      RR  EE           AA    AA  DD      DD  PP      PP  RR      RR  MMMM  MMMM  PP      PP      TT
RR      RR  EE           AA    AA  DD      DD  PP      PP  RR      RR  MM  MM  MM  PP      PP      TT
RR      RR  EE           AA    AA  DD      DD  PP      PP  RR      RR  MM  MM  MM  PP      PP      TT
RRRRRRRR    EEEEEEEE     AA    AA  DD      DD  PPPPPPPP    RRRRRRRR    MM      MM  PPPPPPPP        TT
RRRRRRRR    EEEEEEEE     AA    AA  DD      DD  PPPPPPPP    RRRRRRRR    MM      MM  PPPPPPPP        TT
RR  RR      EE           AAAAAAAAAA  DD      DD  PP          RR  RR      MM      MM  PP              TT
RR  RR      EE           AAAAAAAAAA  DD      DD  PP          RR  RR      MM      MM  PP              TT
RR    RR    EE           AA    AA  DD      DD  PP          RR    RR    MM      MM  PP              TT      ....
RR    RR    EE           AA    AA  DD      DD  PP          RR    RR    MM      MM  PP              TT      ....
RR      RR  EEEEEEEEEE   AA    AA  DDDDDDDD    PP          RR      RR  MM      MM  PP              TT      ....
RR      RR  EEEEEEEEEE   AA    AA  DDDDDDDD    PP          RR      RR  MM      MM  PP              TT      ....

LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II              SS
LL                II              SS
LL                II              SS
LL                II              SS
LLLLLLLLLL      IIIIII    SSSSSSSS
LLLLLLLLLL      IIIIII    SSSSSSSS
```

Table of contents

(2) 52 DECLARATIONS
(3) 89 BOO$READPROMPT - Prompt and read input string
(3) 162 RIO$OUTPUT_LINE - Output one line

```
0000     1          .TITLE  READPRMPT - READ AND PROMPT ROUTINE
0000     2          .IDENT  'V04-000'
0000     3
0000     4 ;
0000     5 ;*****************************************************************************
0000     6 ;*                                                                           *
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0000    23 ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
0000    24 ;*                                                                           *
0000    25 ;*                                                                           *
0000    26 ;*****************************************************************************
0000    27 ;
0000    28
0000    29 ;++
0000    30 ; FACILITY:
0000    31 ;
0000    32 ; ABSTRACT:
0000    33 ;       This module contains a routine (BOO$READPROMPT) which writes a
0000    34 ;       prompt line and reads a line of input from the console terminal
0000    35 ;       using QIOs.  Either writing the prompt line or reading the input line
0000    36 ;       may be bypassed.
0000    37 ;
0000    38 ; ENVIRONMENT:  User mode
0000    39 ;
0000    40 ; AUTHOR:  STEVE BECKHARDT,     CREATION DATE:  27-Sep-1979
0000    41 ;
0000    42 ; MODIFIED BY:
0000    43 ;
0000    44 ;       V03-002 KDM0090         Kathleen D. Morse       01-Dec-1983
0000    45 ;               Make psect word aligned.
0000    46 ;
0000    47 ;       V03-001 JLV0134         Jake VanNoy             31-Dec-1981
0000    48 ;               Add routine RIO$OUTPUT_LINE.
0000    49 ;
0000    50 ;--
```

```
                                0000     52          .SBTTL  DECLARATIONS
                                0000     53 ;
                                0000     54 ; INCLUDE FILES:
                                0000     55 ;
                                0000     56
                                0000     57 ;
                                0000     58 ; MACROS:
                                0000     59 ;
                                0000     60
                                0000     61 ;
                                0000     62 ; EQUATED SYMBOLS:
                                0000     63 ;
                                0000     64
                                0000     65 ;
                                0000     66 ; OWN STORAGE:
                                0000     67 ;
                                0000     68
                            00000000     69          .PSECT  BOO$SYSGEN,WRT,WORD
                                0000     70
                                0000     71 IOSTBLK:                                     ; I/O status block
                            00000008    0000     72          .BLKQ   1
                                0008     73
                                0008     74 CHANNEL:                                     ; Channel
                                0000    0008     75          .WORD   0
                                000A     76
                                000A     77 DEVNAM_DSC:                                  ; Device name descriptor
  30 41 50 4F 5F 00000012'010E0000'     000A     78          .ASCID  /_OPA0/
                                0017     79
                                0000    0017     80 RIO$GW_OUTLEN:: .WORD   0
                                0019     81 RIO$AB_OUTBUF::
                            00000100    0019     82          .LONG   256                 ; Descriptor
                            00000021'   001D     83          .LONG   RIO$AB_BUFFER       ; Buffer pointer
                                0021     84 RIO$AB_BUFFER::
                            00000121    0021     85          .BLKB   256                 ; Buffer
                                0121     86
                            00000000     87          .PSECT  BOO$READPROMPT,RD,NOWRT,EXE
```

```
                                        .SBTTL  BOO$READPROMPT - Prompt and read input string
                                ;++
                                ; Functional Description:
                                ;       BOO$READPROMPT outputs the specified ASCIZ prompt string on the
                                ;       console terminal then checks the count of characters to be read.
                                ;       If zero it exits, otherwise it reads the console terminal until
                                ;       either a carriage return is encountered or the character count
                                ;       is satisfied.  The specified buffer is filled with an ASCIC
                                ;       string containing the characters read but not including the
                                ;       terminating carriage return.
                                ;
                                ; Calling Sequence:
                                ;       CALLG   ARGLIST,BOO$READPROMPT
                                ;
                                ; Input Parameters:
                                ;       PROMPT(AP)  -  Address of ASCIZ prompt string
00000004                        ;       PROMPT  =  4
                                ;
                                ;       SIZE(AP)    -  Maximum length of input string
00000008                        ;       SIZE    =  8
                                ;                       Note: if size is zero, then nothing is read
                                ;                             and only the prompt string is written.
                                ;
                                ;       BUF(AP)     -  Address of input buffer
0000000C                        ;       BUF     =  12
                                ;
                                ; Output Parameters:
                                ;       R0 - Completion status code
                                ;
                                ;       Buffer located by BUF(AP) will be filled with the string
                                ;       read as an ASCIC string.
                                ;
                                ;--

                                BOO$READPROMPT::
                        0004    .WORD   ^M<R2>

                   0008'CF  B5          TSTW    W^CHANNEL                       ; Channel assigned yet?
                         18  12          BNEQ    10$                             ; Yes
                                         $ASSIGN_S       CHAN = W^CHANNEL,-      ; No, assign it
                                                         DEVNAM = DEVNAM_DSC,-
                                                         ACMODE = #3             ; Allow access from user mode
                      73 50  E9          BLBC    R0,90$                          ; Error

 04 BC    FFFF 8F    00  3A  10$:        LOCC    #0,#^XFFFF,@PROMPT(AP)          ; Locate end of prompt string
               51    04 AC  C2          SUBL    PROMPT(AP),R1                   ; R1 = size of prompt string
               50    08 AC  D0          MOVL    SIZE(AP),R0                     ; R0 = size of input buffer
                     38  13  BEQL    20$                                     ; No input buffer
               52    0C AC  D0          MOVL    BUF(AP),R2                      ; R2 = address of input buffer

                                        $QIOW_S CHAN = W^CHANNEL,-              ; Prompt and read
                                                FUNC = #IO$_READPROMPT,-
                                                IOSB = W^IOSTBLK,-
                                                P1 = 1(R2),-                    ; Address of input buffer
                                                P2 = R0,-                       ; Size of input buffer
                                                P5 = PROMPT(AP),-               ; Address of prompt buffer
                                                P6 = R1                         ; Size of prompt buffer
```

```
                36 50   E9  005A   146          BLBC    R0,90$                  ; Error
50      0000'CF 3C      3C  005D   147          MOVZWL  W^IOSTBLK,R0            ; Get I/O status block
62      0002'CF 90      90  0062   148          MOVB    W^IOSTBLK+2,(R2)        ; Store size of input line
                2A      11  0067   149          BRB     90$
                            0069   150
                            0069   151 20$:     $QIOW_S CHAN = W^CHANNEL,-      ; Write prompt string, no input
                            0069   152                 FUNC = #IO$_WRITEVBLK,-
                            0069   153                 IOSB = W^IOSTBLK,-
                            0069   154                 P1 = @PROMPT(AP),-      ; Address of prompt buffer
                            0069   155                 P2 = R1                 ; Size of prompt buffer
                05 50   E9  008B   156          BLBC    R0,90$                  ; Error
50      0000'CF 3C      3C  008E   157          MOVZWL  W^IOSTBLK,R0            ; Get I/O status block
                            0093   158
                        04  0093   159 90$:     RET
                            0094   160
```

```
                                0094   162 .SBTTL RIO$OUTPUT_LINE - Output one line
                                0094   163
                                0094   164 ;+
                                0094   165 ; This routine is in RMSCONIO for SYSGEN, is used here to map STASYSGEN
                                0094   166 ; calls to this routine into calls to BOO$READPROMPT.
                                0094   167 ;
                                0094   168 ; Inputs:
                                0094   169 ;       RIO$GW_OUTLEN - length of string to output
                                0094   170 ;       RIO$AB_BUFFER - buffer to output
                                0094   171 ;-
                                0094   172
                                0094   173 RIO$OUTPUT_LINE::
                                0094   174
          7E    51    7D      0094   175         MOVQ    R1,-(SP)                ; Save R1,R2
51  00000017'EF    3C      0097   176         MOVZWL  RIO$GW_OUTLEN,R1        ; Set length
52  00000021'EF    9E      009E   177         MOVAB   RIO$AB_BUFFER,R2        ; Set address
       51  6241    9E      00A5   178         MOVAB   (R2)[R1],R1             ; Set address of end of string
61  00000A0D 8F    D0      00A9   179         MOVL    #^X00000A0D,(R1)        ; Set CR, LF, zero byte at end
                               00B0   180
             7E    7C      00B0   181         CLRQ    -(SP)                   ; Null read buffer
             52    DD      00B2   182         PUSHL   R2                      ; Address of string
FFFFFF45 EF    03    FB      00B4   183         CALLS   #3,L^BOO$READPROMPT     ; Output string
                               00BB   184
             51    8E    7D      00BB   185         MOVQ    (SP)+,R1                ; Restore R1,R2
                         05      00BE   186         RSB                             ; Return
                               00BF   187
                               00BF   188         .END
```

```
$$T1            = 00000001
BOO$READPROMPT    00000000 RG    02
BUF             = 0000000C
CHANNEL           00000008 R     01
DEVNAM_DSC        0000000A R     01
IO$_READPROMPT    ********   X   02
IO$_WRITEVBLK     ********   X   02
IOSTBLK           00000000 R     01
PROMPT          = 00000004
RIO$AB_BUFFER     00000021 RG    01
RIO$AB_OUTBUF     00000019 RG    01
RIO$GW_OUTLEN     00000017 RG    01
RIO$OUTPUT_LINE   00000094 RG    02
SIZE            = 00000008
SYS$ASSIGN        ******** GX    02
SYS$QIOW          ******** GX    02
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
BOO$SYSGEN	00000121 (289.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC WORD
BOO$READPROMPT	000000BF (191.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.09	00:00:00.79
Command processing	128	00:00:00.65	00:00:02.88
Pass 1	129	00:00:01.08	00:00:03.45
Symbol table sort	0	00:00:00.01	00:00:00.01
Pass 2	48	00:00:00.45	00:00:01.08
Symbol table output	3	00:00:00.02	00:00:00.02
Psect synopsis output	2	00:00:00.01	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	342	00:00:02.31	00:00:08.25

```
The working set limit was 900 pages.
4406 bytes (9 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 16 non-local and 3 local symbols.
188 source lines were read in Pass 1, producing 13 object records in Pass 2.
6 pages of virtual memory were used to define 6 macros.
```

```
                              +----------------------------+
                              ! Macro library statistics !
                              +----------------------------+

Macro library name                          Macros defined
------------------                          --------------
_$255$DUA28:[BOOTS.OBJ]BOOTS.MLB;1                       0
_$255$DUA28:[SYS.OBJ]LIB.MLB;1                           0
_$255$DUA28:[SYSLIB]STARLET.MLB;2                        6
TOTALS (all libraries)                                   6

70 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:READPRMPT/OBJ=OBJ$:READPRMPT MSRC$:READPRMPT/UPDATE=(ENH$:READPRMPT)+EXECML$/LIB+LIB$:BOOTS.MLB/LIB
```

READLBN
LIS

RTFILREAD
LIS

SHARE
LIS

QUSS
LIS

RXBTDRIVR
LIS

MBBTDRIVR
LIS

SCSLOADER
LIS

RMSCONIO
LIS

READDRIV
LIS

PABTDRIVR
LIS

PUBTDRIVR
LIS

PUTERROR
LIS

READPRMP
LIS